

(19) World Intellectual Property Organization
International Bureau



Rec'd PCT/PTO 09 DEC 2004



(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 03/106511 A1

(51) International Patent Classification⁷: C08F 10/00, 4/64

MARGELLI, Gianfrancesco [IT/IT]; Via Pietro Nenni,
21, I-45030 Occhiobello (IT).

(21) International Application Number: PCT/EP03/05268

(74) Agent: COLUCCI, Giuseppe; Basell Poliolefine Italia
S.P.A., Intellectual Property, P.le G. Donegani 12, I-44100
Ferrara (IT).

(22) International Filing Date: 19 May 2003 (19.05.2003)

(25) Filing Language:

English

(81) Designated States (*national*): JP, US.

(26) Publication Language:

English

(84) Designated States (*regional*): European patent (AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(30) Priority Data:

02077418.8

13 June 2002 (13.06.2002) EP

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

(71) Applicant (*for all designated States except US*): BASELL
POLIOLEFINE ITALIA S.P.A. [IT/IT]; Via Pergolesi,
25, 20124 Milano (IT).

Published:

— with international search report

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): DALL'OCCO,
Tiziano [IT/IT]; Via E. Farolfi, 3, I-44100 Ferrara (IT).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CATALYST COMPONENTS FOR THE POLYMERIZATION OF OLEFINS

(57) **Abstract:** Catalyst components for the polymerization of olefins $\text{CH}_2=\text{CHR}$, wherein R is hydrogen or a hydrocarbon radical having 1-12 carbon atoms, comprising Mg, Ti, C1, OR groups, where R is a C1-C10 alkyl group optionally containing heteroatoms, and an ether having two or more ether groups, characterized by the fact that the Mg/Ti weight ratio is lower than 3 from 2 to 6.5 the C1/Ti weight ratio is from 1.5 to 6, the OR/Ti weight ratio is from 0.5 to 3.5 and at least 50% of the Titanium atoms are in a valence state lower than 4. The said catalyst components allow the preparation of ethylene copolymers with a low content of xylene soluble fractions.

WO 03/106511 A1